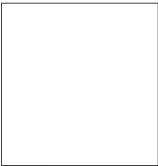


50X1



CENTRAL INTELLIGENCE AGENCY

INFORMATION REPORT

This Document contains information affecting the National Defense of the United States, within the meaning of Title 18, Sections 793 and 794, of the U.S. Code, as amended. Its transmission or revelation of its contents to or receipt by an unauthorized person is prohibited by law. The reproduction of this form is prohibited.

CONFIDENTIAL

COUNTRY	USSR (Kuybyshev Oblast)	REPORT		50X1
SUBJECT	Engine Production Problems and Accomplish-DATE DISTR.		29 March 1954	
	ments at Zavod 2, Kuybyshev			
		NO. OF PAGES	3	50X1-HUM
DATE OF INFO.				
PLACE ACQUIRED				

THE SOURCE EVALUATIONS IN THIS REPORT ARE DEFINITIVE.  
THE APPRAISAL OF CONTENT IS TENTATIVE.  
(FOR KEY SEE REVERSE)

	50X1-HUM
	50X1
	50X1-HUM

Comments

- 1. In paragraphs 5 and 6, for Besymyanka read Bezmyyanka.
- 2. In paragraph 6, for Federal acceptance check read State acceptance check.

CONFIDENTIAL

STATE	#X	ARMY	#X	NAVY	#X	AIR	#X	FBI		AEC					
-------	----	------	----	------	----	-----	----	-----	--	-----	--	--	--	--	--

(Note: Washington Distribution Indicated By "X"; Field Distribution By "#".)

50X1

C O N F I D E N T I A L

-2-

50X1

3. [redacted] the Soviets were making constant attempts to lower the gross weight of the power plant. These attempts, [redacted] consisted of reducing the thickness of the sheetmetal used in the turbine housing, and by changing design specification for certain components of the power plant. [redacted] 50X1-HUM
4. When construction specifications were received in March, 1952 for the Project M type engine, [redacted] German technicians engaged in the design of gears for the power plant discuss the fact that the projected gearing would not be able to withstand desired performance requirements. The critical aspect of the entire Project M, [redacted] revolved around the reduction gearing which coupled the two 022 power plants and transmitted the power of both power plants to a single drive shaft. [redacted] not possess detailed information on what the difference of opinion between the Soviets and the German technicians was, but [redacted] the Germans recommended that the reductions gearing be redesigned, and the Soviets did not accept this recommendation. [redacted] 50X1-HUM
- [redacted] it was the reduction gears which failed consistently when the engine was test run. Even during test runs the gears performed far below the expected performance specification of the power plant. [redacted] technicians [redacted] indicated that the Soviets were trying to overcome reduction gear failures by hydro polishing of gears and by making various changes on the tooth ratio design of the gears. [redacted] 50X1-HUM
5. In the summer of 1952 [redacted] production of the M project power plant had been transferred to Besmyanka. However [redacted] design changes in the turbine and compressor blades in order to make changes in tool specifications. [redacted] not possess detailed knowledge of the performance characteristics of the M project power plant, but [redacted] it operated at 7600 rpm, and weighed 3.8 tons. [redacted] 50X1-HUM
6. [redacted] at Zavod 2, a Federal acceptance check on the M project type engine was not performed. [redacted] the completed engines of this type were sent from Besmyanka to Zavod 2 for test operation. [redacted] 50X1-HUM
7. [redacted] type 012 was ready for testing in May of 1953 at which time Project K was also being prepared for test runs. [redacted] 50X1-HUM
- [redacted] 50X1-HUM

C O N F I D E N T I A L

C O N F I D E N T I A L

REPORT [redacted] 50X1

50X1-HUM

COUNTRY : USSR (Kuybyshev Oblast)

DATE DISTR. 19 FEB 54

SUBJECT : Engine Production Problems and Accomplishments at Zavod 2, Kuybyshev

NO. OF PAGES 2

PLACE ACQUIRED

NO. OF ENCLS. (LISTED BELOW)

50X1-HUM

DATE ACQUIRED BY

SUPPLEMENT TO REPORT NO.

DATE OF INFO

THIS IS UNEVALUATED INFORMATION

50X1-HUM

1. [redacted] work at Zavod 2, Kuybyshev, during the entire period [redacted] consisted only of tool and die design for blades used in the turbine and in the compressors of the various power plants produced there. However on occasions [redacted] an opportunity to gain a small amount of insight into some of the related problems and feel that it would be of value to enumerate some of these.

50X1-HUM

50X1-HUM

[redacted] indicated that the Soviets were pleased with the results of the tests performed on the type O22 turbo-prop power plant. Their interest is borne out further by the [redacted]

50X1-HUM

[redacted] various design changes for the blades from 1947 until 1952.

50X1-HUM

2. Although [redacted] absolutely no information on the actual fuel consumption of the power plant, [redacted] the Soviets believed fuel consumption to be less than that of similar type American engines.

50X1-HUM

50X1-HUM

C O N F I D E N T I A L